

CLAIMS

1. An updating system of music information comprising:

5 a broadcasting apparatus having a
broadcasting side memory function unit for storing music
information including at least one of track data and
music database information and a transmission function
unit for broadcasting the music information on a
predetermined broadcast channel and
10 a terminal having a reception function
unit for receiving a broadcast wave of said predetermined
broadcast channel, an extraction function unit for
extracting said music information from the received
broadcast wave, and an update function unit for updating
15 the music information in the reception side memory
function unit with the extracted music information.

2. An updating system of music information as set
forth in claim 1, wherein said predetermined broadcast
channel is: (i) a previously set specific channel in
20 radio broadcasts; (ii) a previously set specific channel
in TV broadcasts; or (iii) a previously set specific
channel in digital broadcasts.

3. An updating system of music information as set
forth in claim 1 or 2, wherein said music database
25 information is comprised of identifying information for
identifying the recording media and music menu
information corresponding to the identifying information,
and the music menu information includes any of title
names, album names, artist names, and genres.

30 4. An updating system of music information as set
forth in any one of claims 1 to 3, wherein:

said terminal is further provided with a
track data request transmission unit for transmitting a
request that music information including a desired track
35 data be added to said reception side memory function unit
and the identifying information of the related terminal
to said transmission apparatus, and

said broadcasting apparatus is further provided with a charge processing unit for charging the related terminal on the basis of said track data request from said terminal and the identifying information of
5 said terminal.

5. An updating system of music information as set forth in any one of claims 1 to 4, wherein said broadcasting apparatus is further provided with a
10 schedule transmission unit for broadcasting a schedule list indicating the schedule for broadcasting said track data.

6. An updating system of music information as set forth in any one of claims 1 to 5, wherein said broadcasting apparatus is further provided with a
15 selection function unit for extracting said music information to be transmitted from said broadcasting side memory function unit.

7. An updating system of music information as set forth in any one of claims 1 to 6, wherein said
20 broadcasting apparatus has a selection function unit for selecting and collecting said music information to be stored in said broadcasting side memory function unit.

8. An updating system of music information as set forth in claim 6 or 7, wherein said selection function
25 unit selects said music information on the basis of a number of times of broadcasts at each music provider or information on release of new music.

9. An updating system of music information as set forth in claim 6 or 7, wherein said selection function
30 unit selects said music on the basis of power play information generated between music providers linked with this or information of release of new music.

10. An updating system of music information as set forth in claim 6 or 7, wherein said selection function
35 unit selects said music information on the basis of various popularity rankings from the music providers.

11. An updating system of music information as set

forth in claim 6 or 7, wherein said selection function unit selects said music information on the basis of said track data request from said terminal.

5 12. An updating system of music information as set forth in any one of claims 1 to 11, wherein said transmission function unit broadcasts said music information on said predetermined broadcast channel constantly repeatedly or periodically on predetermined days

10 13. An updating system of music information as set forth in any one of claims 1 to 12, wherein said transmission function unit has a conversion function unit for converting said music information to a format for broadcasting the same on said predetermined broadcast
15 channel.

 14. An updating system of music information as set forth in claim 6, wherein said selection function unit transmits either of all said music information of said broadcasting side memory function unit or difference in
20 music information newly added to said broadcasting side memory function unit to said transmission function unit.

 15. An updating system of music information as set forth in claim 13, wherein said extraction function unit extracts said music information broadcasted on said
25 predetermined broadcast channel in a predetermined format according to that format.

 16. An updating system of music information as set forth in any one of claims 1 to 15, wherein said update function unit rewrites said reception side memory
30 function unit with the received music information when receiving all music information from the broadcasting side memory function unit on said broadcasting apparatus side.

 17. An updating system of music information as set forth in any one of claims 1 to 15, wherein said update
35 function unit calculates unrecorded music information from among all music information when receiving all music

information from the broadcasting side memory function unit on said transmitting apparatus side and stores this as the newly added difference in music information in said reception side memory function unit.

5 18. An updating system of music information as set forth in any one of claims 1 to 15, wherein said update function unit adds the difference in music information to said reception side memory function unit and stores it there when receiving the newly added difference in music
10 information from the broadcasting side memory function unit on said transmitting apparatus side.

 19. An updating system of music information as set forth in any one of claims 16 to 18, wherein said update function unit once holds the music information or said
15 difference in music information transmitted from said broadcasting apparatus side constantly repeatedly or periodically on predetermined days and, when detecting that it is not the same as the already received information, stores the information in said reception
20 side memory function unit.

 20. A broadcasting apparatus of music information providing a broadcasting side memory function unit for storing music information including at least one of track data and music database information and a transmission
25 function unit for broadcasting the music information on a predetermined broadcast channel.

 21. A broadcasting apparatus of music information as set forth in claim 20, wherein said predetermined broadcast channel is (i) a previously set specific
30 channel in radio broadcasts; (ii) a previously set specific channel in TV broadcasts; or (iii) a previously set specific channel in digital broadcasts.

 22. A broadcasting apparatus of music information as set forth in claim 20 or 21, wherein said music
35 database information is comprised of identifying information for identifying the recording media and music menu information corresponding to the identifying

information, and the music menu information includes any of title names, album names, artist names, and genres.

23. A broadcasting apparatus of music information as set forth in any one of claims 20 to 22, wherein provision is further made of:

a track data request reception unit for receiving a request that the music information including the desired track data from the terminal be added to said reception memory function unit and the identifying information of the related terminal, and

a charge processing unit for charging the related terminal on the basis of said track data request from said terminal and the identifying information of said terminal.

24. A broadcasting apparatus of music information as set forth in any one of claims 20 to 23, wherein provision is further made of a schedule transmission unit for broadcasting a schedule list indicating the schedule for broadcasting said track data.

25. A broadcasting apparatus of music information as set forth in any one of claims 20 to 24, wherein provision is further made of a selection function unit for extracting said music information to be transmitted from said broadcasting side memory function unit.

26. A broadcasting apparatus of music information as set forth in any one of claims 20 to 25, wherein provision is further made of a selection function unit for selecting and collecting said music information to be stored in said broadcasting side memory function unit.

27. A broadcasting apparatus of music information as set forth in claim 25 or 26, wherein said selection function unit selects said music information on the basis of a number of times of broadcasts at each music provider or information on release of new music.

28. A broadcasting apparatus of music information as set forth in claim 25 or 26, wherein said selection function unit selects said music on the basis of power

play information generated between music providers linked with this or information of release of new music.

29. A broadcasting apparatus of music information as set forth in claim 25 or 26, wherein said selection
5 function unit selects said music information on the basis of various popularity rankings of the music providers.

30. A broadcasting apparatus of music information as set forth in claim 25 or 26, wherein said selection
10 function unit selects said music information on the basis of said track data request from said terminal.

31. A broadcasting apparatus of music information as set forth in any one of claims 20 to 30, wherein said
transmission function unit broadcasts said music
15 information on said predetermined broadcast channel constantly repeatedly or periodically on predetermined days

32. A broadcasting apparatus of music information as set forth in any one of claims 20 to 31, wherein said
transmission function unit has a conversion function unit
20 for converting said music information to a format for broadcasting the same on said predetermined broadcast channel.

33. A broadcasting apparatus of music information as set forth in any one of claims 25 to 30, wherein said
25 selection function unit transmits either all said music information of said broadcasting side memory function unit or a difference in music information newly added to said broadcasting side memory function unit to said transmission function unit.

30 34. A terminal having:

a reception side memory function unit for storing music information including at least one of track data and music database information;

a reception function unit for receiving
35 said music information broadcasted on a predetermined broadcast channel;

an extraction function unit for extracting

said music information from the broadcast wave of said received predetermined broadcast channel; and

an update function unit for updating the music information in said reception side memory function unit with said extracted music information.

35. A terminal having an updating function of music information as set forth in claim 34, wherein said music database information is comprised of identifying information for identifying the recording media and music menu information corresponding to the identifying information, and the music menu information includes any of title named, album named, artist named, and genred.

36. A terminal having an updating function of music information as set forth in claim 34 or 35, wherein provision is further made of a track data request transmission unit for transmitting a request that music information including the desired track data be added to said reception side memory function unit and the identifying information of the related terminal to the broadcasting apparatus for transmitting said predetermined broadcast channel.

37. A terminal having an updating function of music information as set forth in any one of claims 34 to 36, wherein said extraction function unit extracts said music information broadcasted on said predetermined broadcast channel in a predetermined format according to that format.

38. A terminal having an updating function of music information as set forth in any one of claims 34 to 37, wherein said update function unit rewrites said reception side memory function unit with the received music information or stores the received music information in said reception side memory function unit.

39. A terminal having an updating function of music information as set forth in any one of claims 34 to 37, wherein said update function unit calculates the unrecorded music information from among received music

information and stores this as the difference in music information in said reception side memory function unit.

40. A terminal having an updating function of music information as set forth in claim 38 or 39, wherein said
5 updating function unit once holds the music information or said difference in music information broadcasted on a predetermined broadcast channel constantly repeatedly or periodically on predetermined days and when detecting
10 that it is not the same as the already received information, stores the same in said reception side memory function unit.

41. An updating method of music information in an updating system of music information provided with a broadcasting apparatus and a terminal, comprising,
15 in said broadcasting apparatus,
a step of broadcasting music information including at least one of track data and music database information stored in a broadcasting side memory function unit on a predetermined broadcast channel and,
20 in said terminal provided with a reception side memory function unit for storing said music information,
a step of receiving the broadcast wave of said predetermined broadcast channel,
25 a step of extracting said music information from the broadcast wave of said received predetermined broadcast channel, and
a step of updating the information in said reception side memory function unit with said extracted
30 music information.

42. An updating method of music information as set forth in claim 41, wherein said predetermined broadcast channel is: (i) a previously set specific channel in radio broadcasts; (ii) a previously set specific channel
35 in TV broadcasts; or (iii) a previously set specific channel in digital broadcasts.

43. An updating method of music information as set

forth in claim 41 or 42, wherein said music database information is comprised of identifying information for identifying the recording media and music menu information corresponding to the identifying information, and the music menu information includes any of title names, album names, artist names, and genres.

44. An updating method of music information as set forth in any one of claims 41 to 43, further comprising a step of having said terminal transmit a request that the music information including the desired track data be added to said reception side memory function unit and the identifying information of the related terminal to said transmission apparatus and a step of having said broadcasting apparatus charge the related terminal on the basis of said track data request from said terminal and the identifying information of said terminal.

45. An updating method of music information as set forth in any one of claims 41 to 44, further comprising a step of having said broadcasting apparatus broadcast a schedule list indicating the schedule for broadcasting said track data.

46. An updating method of music information as set forth in any one of claims 41 to 45, further comprising a selection step of having said broadcasting apparatus extract said music information to be transmitted from said broadcasting side memory function unit.

47. An updating method of music information as set forth in any one of claims 41 to 45, further comprising a selection step of having said broadcasting apparatus select and collect said music information to be stored in said broadcasting side memory function unit.

48. An updating method of music information as set forth in claim 46 or 47, wherein said selection step selects said music information on the basis of a number of times of broadcasts at each music provider or information on release of new music.

49. An updating method of music information as set forth in claim 46 or 47, wherein said selection step selects said music on the basis of power play information generated between music providers linked with this or
5 information of release of new music.

50. An updating method of music information as set forth in claim 46 or 47, wherein said selection step selects said music information on the basis of various popularity rankings of music providers.

10 51. An updating method of music information as set forth in claim 46 or 47, wherein said selection step selects said music information on the basis of said track data request from said terminal.

15 52. An updating method of music information as set forth in any one of claims 41 to 51, wherein said broadcasting step broadcasts said music information on said predetermined broadcast channel constantly repeatedly or periodically on predetermined days

20 53. An updating method of music information as set forth in any one of claims 41 to 52, wherein said broadcasting step converts said music information to a format for broadcasting the same on said predetermined broadcast channel by a conversion function unit.

25 54. An updating method of music information as set forth in claim 46, wherein said selection step selects either all said music information of said broadcasting side memory function unit among said music information broadcasted on the predetermined broadcast channel or the difference in music information newly added to said
30 broadcasting side memory function unit.

35 55. An updating method of music information as set forth in claim 53, wherein said extraction step extracts said music information broadcasted on said predetermined broadcast channel in a predetermined format according to that format.

56. An updating method of music information as set forth in any one of claims 41 to 55, wherein said

updating step rewrites said reception side memory
function unit with the received music information when
receiving all music information from the broadcasting
side memory function unit on said broadcasting apparatus
5 side.

57. An updating method of music information as set
forth in any one of claims 41 to 55, wherein said
updating step calculates unrecorded music information
from among all music information when receiving all music
10 information from the broadcasting side memory function
unit on said transmitting apparatus side and stores this
as the newly added difference in music information in
said reception side memory function unit.

58. An updating method of music information as set
15 forth in any one of claims 41 to 55, wherein said
updating step adds the difference in music information to
said reception side memory function unit and stores it
when receiving the newly added difference in music
information from the broadcasting side memory function
20 unit on said broadcasting apparatus side.

59. An updating method of music information as set
forth in any one of claims 46 to 48, wherein said
updating step once holds the music information or said
difference in music information transmitted from said
25 broadcasting apparatus side constantly repeatedly or
periodically on predetermined days and, when detecting
that it is not the same as the already received
information, stores the same in said reception side
memory function unit.

30 60. A broadcasting method of music information in a
transmission apparatus for broadcasting the music
information, comprising

a step of broadcasting music information
including at least one of track data and music database
35 information stored in a broadcasting side memory function
unit on a predetermined broadcast channel,

61. A broadcasting method of music information as

set forth in claim 60, wherein said predetermined broadcast channel is (i) a previously set specific channel in radio broadcasts; (ii) a previously set specific channel in TV broadcasts; or (iii) a previously set specific channel in digital broadcasts.

62. A broadcasting method of music information as set forth in claim 60 or 61, wherein said music database is comprised of identifying information for identifying the recording media and music menu information corresponding to the identifying information, and the music menu information includes any of title names, album names, artist names, and genres.

63. A broadcasting method of music information as set forth in any one of claims 60 to 62, comprising a step of receiving a request that the music information including the desired track data from the terminal be added to said reception side memory function unit and the identifying information of the related terminal, and a step of charging the related terminal on the basis of said track data request from said terminal and the identifying information of said terminal.

64. A broadcasting method of music information as set forth in any one of claims 60 to 63, further comprising a step of broadcasting a schedule list indicating the schedule for broadcasting said track data.

65. A broadcasting method of music information as set forth in any one of claims 60 to 64, further comprising a selection step of extracting said music information to be transmitted from said broadcasting side memory function unit.

66. A broadcasting method of music information as set forth in any one of claims 60 to 65, further comprising a step of selecting and collecting said music information to be stored in said broadcasting side memory function unit.

67. A broadcasting method of music information as

set forth in claim 65 or 66, wherein said selection step selects said music information on the basis of a number of times of broadcasts at each music provider or information on release of new music.

5 68. A broadcasting method of music information as set forth in claim 65 or 66, wherein said selection step selects said music on the basis of power play information generated between music providers linked with this or information of release of new music.

10 69. A broadcasting method of music information as set forth in claim 65 or 66, wherein said selection step selects said music information on the basis of various popularity rankings of the music providers.

15 70. A broadcasting method of music information as set forth in claim 25 or 26, wherein said selection step selects said music information on the basis of said track data request from said terminal.

20 71. A broadcasting method of music information as set forth in any one of claims 60 to 70, wherein said broadcasting step broadcasts said music information on said predetermined broadcast channel constantly repeatedly or periodically on predetermined days.

25 72. A broadcasting method of music information as set forth in any one of claims 60 to 71, wherein said broadcasting step converts said music information to a format for broadcasting the same on said predetermined broadcast channel by a conversion function unit.

30 73. A broadcasting method of music information as set forth in claim 65, wherein said selection step selects either all said music information of said broadcasting side memory function unit among said music information broadcasted on the predetermined broadcast channel or the difference in music information newly added to said broadcasting side memory function unit.

35 74. A music information updating method of a terminal provided with a reception side memory function unit for storing music information including at least one

of track data and music database information, comprising:
a step of receiving said music information
broadcasted on a predetermined broadcast channel;
a step of extracting said music
5 information from said received predetermined broadcast
channel; and
a step of updating the music information
in said reception side memory function unit with said
extracted music information.

10 75. A music information updating method of a
terminal as set forth in claim 74, wherein said music
database information is comprised of identifying
information for identifying the recording media and music
menu information corresponding to the identifying
15 information, and the music menu information includes any
of title names, album names, artist names, and genres.

76. A music information updating method of a
terminal as set forth in claim 74 or 75, further
comprising a step of transmitting a request that the
20 music information including the desired track data be
added to said reception side memory function unit and the
identifying information of the related terminal to the
broadcasting apparatus transmitting said predetermined
broadcast channel.

25 77. A music information updating method of a
terminal as set forth in either of claims 74 to 76,
wherein said extraction step extracts said music
information broadcasted on said predetermined broadcast
channel in a predetermined format according to that
30 format.

78. A music information updating method of a
terminal as set forth in any one of claims 74 to 77,
wherein said updating step rewrites said reception side
memory function unit with the received music information
35 or stores the received music information in said
reception side memory function unit.

79. An music information updating method of a

terminal as set forth in any one of claims 74 to 77,
wherein said updating step calculates the unrecorded
music information from among received music information
and stores this as newly added difference in music
5 information to said reception side memory function unit.

80. An music information updating method of a
terminal as set forth in claim 78 or 79, wherein said
updating step once holds the music information or said
difference in music information broadcasted on the
10 predetermined broadcast channel constantly repeatedly or
periodically on predetermined days and, when detecting
that they are not the same as the already received
information, stores the same in said reception side
memory function unit.